REMOTE TECHS

HALO Smart Sensor
Environmental Monitoring Solution for Senior Living Communities

One of the biggest challenges facing senior living administrators is to deliver on their day-to-day operational responsibilities while complying with extensive federal and state legislation. The **HALO Smart Sensor** and **HALO Cloud** monitoring solution helps administrators meet their regulatory obligation to provide a **"safe, clean, comfortable and home-like environment"** while helping to save energy costs.

TEMPERATURE
HALO monitors room temperature to ensure it is within regulatory limits and can be programmed to send an alert when residents' rooms or common areas are too warm or cold.

LIGHT LEVELS[1]
HALO can be configured to trigger an alert when light levels are below the recommended level of 300 Lux during the day or above 5 Lux at night.

SMOKING AND VAPING
Use of vaping devices and cigarettes is completely forbidden or restricted to designated areas of residential care homes in many states. HALO can alert administrators when any of these are detected.

ABUSE & NEGLECT
Facilities are required to "protect residents from abuse and neglect". HALO's audio algorithms can be programmed to alert staff to fights and calls for help, and to monitor the frequency of check-ins by staff.

VANDALISM & TRESPASSING ALERTS
HALO can be configured to send notifications when lights or noise is detected in unauthorized areas and after hours.

HUMIDITY
HALO can alert administrators and facility managers when relative humidity is below 40% or above 60%. This improves patient health by preventing allergies from mold and mildew and minimizing the risk of disease transmission.

SOUND
HALO can be configured to trigger alerts when sound levels exceed World Health Organization recommended levels for hospitals of 40dBA maximum or 30 dBA continuous.

AIR QUALITY INDEX (PARTICULATES & CONTAMINANTS)
According to the EPA, Air Quality can have a significant impact on heart and lung health, particularly in the elderly. HALO enables staff, residents and their families to monitor Air Quality at a room level.

PANIC BUTTON SUPPORT[2]
Healthcare workers are five times more likely to be injured by workplace violence than any other profession. HALO's panic button integration alerts management and security staff to incidents via the HALO Cloud dashboard, mobile app and email.

MANAGE HVAC ENERGY COSTS
HALO can help administrators and facility managers minimize HVAC system use and expense when rooms are unoccupied.

Download the HALO Cloud App to receive push notifications!

Connect to HALO Cloud to manage multiple devices, receive real-time Health Index and AQI alerts and reporting, see alerts and historical data to document your buildings' health status and trouble areas.

HEALTH INDEX
5
HAZARDOUS

AIR QUALITY INDEX
1
GOOD

REMOTE TECHS

- Patient Monitoring
- Calls for Help and Aggression Detection
- Vape and THC Detection
- Disease Prevention with Health Index
- Chemical and Gas Detection
- Air Quality Monitoring
- Manage Energy Costs
- Abnormal Movement Patterns

Easier Installation with 3C with Surface Mount Installation and Power TWO Units Using One Cable Run

HALO 3C - General Specifications

Operating Temperature	32°F - 122°F (0°C - 50°C)
Operating Humidity	0 to 90% Relative Humidity (non-condensing)
Power Supply[3]	Single HALO 3C, PoE (IEEE 802.3af Class 3 Compliance) 11W. HALO 3C with additional tethered HALO 3C, PoE (IEEE 802.3at Class 3 Compliance) 22W
Dimensions	5.5" x 2.0" (140mm x 51mm)
Weight	0.8 lbs (0.365 kgs)
Mounting Options	Surface Mount, Pole Mount (optional), Conduit Adapter (optional)
Vandal	IK8 rated, vandal proof housing with Tamper Alert
Certifications	UL, CUL, CE, RoHS, FCC, WEEE, NRCS, ACMA, RCA, UKCA, VCCI

VMS Integrations: Milestone, Genetec, Avigilon, ExacQ Vision, Rhombus Systems, Arcules, Vivotek, Pelco, Ganz Cortrol, Nx Witness, Qognify, DW Spectrum IPVMS, Mirasys, Video Insight, EoCortex, Wisenet Wave VMS, Axxonsoft, Digifort, and many others!

Other 3rd Party Integrations: Reflow+ Metasys and OpenBlue, The Boring Lab, Presence Management, IDentifyED, Vigilance Software, Punch Alert, DIR-S, Extreme Network Defender, Aruba HPE, Connect One, AMT, Gallagher, NuLEDs, Singlewire Informacast and many others!

Supported Languages: English, Foreign Languages Supported

Emergency Keywords: HALO supports multiple keywords

LASER 1
Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

HALO 3C - Network Specifications

Ethernet In	RJ-45 (10/100 Base-T)
Ethernet Out	RJ-45 (10/100 Base-T) IEEE 802.3af Class Compliance
Protocols	BACnet, RTSP, TCP/IP, IPV4/V6, HTTP, HTTPS, DHCP, ARP, Bonjour
Wireless	2.4 GHZ IEEE 802.11 b/g/n/ac Wireless
Bluetooth	Bluetooth 5.0, BLE

HALO 3C - Interface Specifications

Live Display Resolution[4]	1024 x 768, IFPS, Live MJPEG or H264, 8 Users maximum
Audio	MEMS Microphones (2) [Audio Analysis Only] No Recording of Live Stream
Alarm Triggers	Air Quality Index (AQI), Health Index, Vape, Vape THC, Aggression, Gunshot, Spoken Keyword, Tamper, Particulates, Carbon Dioxide Calibrated, Total Volatile Organic Compounds, Carbon Monoxide, Temperature/Humidity, Light Level, Sound Levels, Building Health, Motion Detection, Occupancy (People Counter), Panic Button
Relay Output	1, Normally Closed, 48VDC at 1 amp
Input	1, Isolated, 12 VDC / 24 VAC
RS-485	1, Integrates wired industrial sensors
External Device Power Output	5VDC out at 300mA
Status Light	Alarm Condition, Multi-Color, Programmable
Speaker	Alarm Condition, Pre-Recorded Files, Programmable WAV Files

1. Available with HALO Cloud only
2. Add-on option only available to HALO Cloud customers
3. Requires a PoE+ (IEEE 802.3atClass 3 Compliance) port
4. Image display of sensor readings only